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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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75	90 11/02/2005		EXAMINER		
Kevin J. Meek			LEE, ANDREW CHUNG CHEUNG		
Baker Botts L.L Suite 600	P.		ART UNIT	PAPER NUMBER	
2001 Ross Avenue			2664		
Dallas, TX 75	201-2980		DATE MAILED: 11/02/2009	DATE MAILED: 11/02/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Commence	09/893,763	PODAR ET AL.					
Office Action Summary	Examiner	Art Unit					
	Andrew C. Lee	2664					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address	s				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period v.  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a repl vill apply and will expire SIX (6) MONTH cause the application to become ABAN	ATION. y be timely filed S from the mailing date of this commun IDONED (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 29 Ju	ine 2005						
· <u> </u>	action is non-final.						
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closed in accordance with the practice under E	•	·					
Disposition of Claims							
4) Claim(s) 1-37 is/are pending in the application.							
4a) Of the above claim(s) is/are withdray							
5)⊠ Claim(s) <u>37</u> is/are allowed.							
6)⊠ Claim(s) <u>1-36</u> is/are rejected.							
7) Claim(s) is/are objected to.	· <u> </u>						
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) acc		the Examiner.					
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correct			121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached 0	Office Action or form PTO-1	52.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 1	19(a)-(d) or (f).					
<ol> <li>Certified copies of the priority document</li> </ol>	s have been received.	•					
2. Certified copies of the priority document	• •						
3. Copies of the certified copies of the prior	•	ceived in this National Stag	je				
application from the International Bureau	, , , , , , , , , , , , , , , , , , , ,						
* See the attached detailed Office action for a list	of the certified copies not re	ceived.					
Attachment(s)							
1) ⊠ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Ll Interview Sur Paper No(s)/l	nmary (PTO-413) Mail Date					
(2) ☐ Notice of Draitsperson's Patent Drawing Review (P10-946)  3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Info	rmal Patent Application (PTO-152)	)				
Paper No(s)/Mail Date	6)  Other:						

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#### **DETAILED ACTION**

1. In response to the discrepancy of "Request For Consideration of An Information Disclosure Statement Timely Filed" (dated Apr 25, 2005) from the Applicant, Examiner had already considered both PTO-1449 IDSs (dated 06/27/01 and 07/17/01) on March 10, 2005.

# Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leung et al. (U.S. 6765892 B1) in view of Kindell et al. (US 5884028).

Regarding claims 1, 19, Leung et al. disclose the limitation of a system for managing access to IP multicast traffic (Abstract, lines 1-8), comprising: a join request manager within an access router (Fig.3, element 309; column 2, lines 54-58), the access router comprising a central processing unit (CPU) (Fig. 9, element 1163, column 12, line 30), and a memory unit (Fig. 9, element 1162, column 12, line 31), and operable to replicate multicast traffic flows for communication to one or more user devices within user systems coupled to the access router using a link (Fig. 3, Abstract, lines 18-21), the join request manager operable to: receive a request to receive a multicast traffic flow, the request being received from one of the user devices within one of the user systems (column 5, lines 57-64); and Leung et al. do not disclose expressly denying

the request if a system metric is above a threshold. Kindell et al. disclose the limitation of denying the request if a system metric is above a threshold (column 7, lines 61 - 66; column 8, lines 27 - 30; column 9, lines 8 - 30). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Leung et al. to include denying the request if a system metric is above a threshold such as that taught by Kindell et al. in order to deliver high volumes of time-critical data and, more specifically, to the management of multimedia data streams within distributed computer systems (as suggested by Kindell et al., see column 1, lines 6 - 9).

4. Claims 2 – 7, 12, 17 – 18, 20 – 25, 30, 35 – 36, are rejected under 35 U.S.C. 103(a) as being unpatentable over Leung et al. (U.S. 6765892 B1) and Kindell et al. (US 5884028) as applied to claims 1, 9 above, and further in view of Sipple et al. (U.S. 6405327 B1).

Regarding claims 2, 20, Leung et al. disclose the limitation of a system for managing access to IP multicast traffic (Abstract, lines 1-8), Leung et al. and Kindell et al. do not disclose expressly the system of claimed wherein the system metric is the utilization of the CPU. Sipple et al. disclose the limitation of the system of claimed wherein the system metric is the utilization of the CPU (Fig. 6, element 1110, column 2, lines 19-26). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Leung et al. and Kindell et al. to include the system of claimed wherein the system metric is the utilization of the CPU such as that taught by Sipple et al. in order to provide resource efficient means for monitoring the performance

of various portions of a computer system (as suggested by Sipple et al., see column 1, lines 9-11).

Regarding claims 3, 21, Leung et al. disclose the limitation of a system for managing access to IP multicast traffic (Abstract, lines 1-8). Leung et al. and Kindell et al. do not disclose expressly the system of claimed wherein the utilization of the CPU is measured in terms of a percentage of a maximum processing capacity of the CPU. Sipple et al. disclose the limitation of the system of claimed wherein the utilization of the CPU is measured in terms of a percentage of a maximum processing capacity of the CPU (column 3, lines 20-25; column 6, 19-29). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Leung et al. and Kindell et al. to include the system of claimed wherein the utilization of the CPU is measured in terms of a percentage of a maximum processing capacity of the CPU such as that taught by Sipple et al. to provide resource efficient means for monitoring the performance of various portions of a computer system (as suggested by Sipple et al., see column 1, lines 9-11).

Regarding claims 4, 22, Leung et al. disclose the limitation of a system for managing access to IP multicast traffic (Abstract, lines 1-8). Leung et al. and Kindell et al. do not disclose expressly the system of claimed wherein utilization of the CPU above the threshold impairs operation of the access router. Sipple et al. disclose the limitation of the system of claimed wherein utilization of the CPU above the threshold impairs operation of the processing system (column 6, lines 19-29). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify

Leung et al. and Kindell et al. to include the system of claimed wherein utilization of the CPU above the threshold impairs operation of the access router such as that taught by Sipple et al. in order to provide resource efficient means for monitoring the performance of various portions of a computer system (as suggested by Sipple et al., see column 1, lines 9-11).

Regarding claims 5, 23, Leung et al. disclose the limitation of a system for managing access to IP multicast traffic (Abstract, lines 1-8). Leung et al. and Kindell et al. do not disclose expressly the system of claimed wherein the system metric is the usage of the memory unit. Sipple et al. disclose the limitation of the system of claimed wherein the system metric is the usage of the memory unit (Fig. 6, element 1106, column 7, lines 38-48). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Leung et al. and Kindell et al. to include the system of claimed wherein the system metric is the usage of the memory unit such as that taught by Sipple et al. in order to provide resource efficient means for monitoring the performance of various portions of a computer system (as suggested by Sipple et al., see column 1, lines 9-11).

Regarding claims 6, 24, Leung et al. disclose the limitation of a system for managing access to IP multicast traffic (Abstract, lines 1-8). Leung et al. and Kindell et al. do not disclose expressly the system of claimed wherein the usage of the memory unit is measured in terms of a percentage of a maximum storage capacity of the memory unit. Sipple et al. disclose the limitation of the system of claimed wherein the usage of the memory unit is measured in terms of a percentage of a maximum storage

capacity of the memory unit (Fig. 6, element 1106, column 7, lines 38 - 48). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Leung et al. and Kindell et al. to include the system of claimed wherein the usage of the memory unit is measured in terms of a percentage of a maximum storage capacity of the memory unit such as that taught by Sipple et al. in order to provide resource efficient means for monitoring the performance of various portions of a computer system (as suggested by Sipple et al., see column 1, lines 9 - 11).

Regarding claims 7, 25, Leung et al. disclose the limitation of a system for managing access to IP multicast traffic (Abstract, lines 1-8). Leung et al. and Kindell do not disclose expressly the system of claimed wherein usage of the memory unit above the threshold impairs operation of the access router. Sipple et al. disclose the limitation of the system of claimed wherein usage of the memory unit above the threshold impairs operation of the processing system (column 6, lines 59-60; column 7, lines 5-10). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Leung et al. and Kindell et al. to include the system of claimed wherein usage of the memory unit above the threshold impairs operation of the access router such as that taught by Sipple et al. in order to provide resource efficient means for monitoring the performance of various portions of a computer system (as suggested by Sipple et al., see column 1, lines 9-11).

Regarding claims 12, 30, Leung et al. discloses the limitation of the system of Claimed wherein the system metric is an aggregate multicast bandwidth over a link coupling, the user system to the access router (Fig. 3, column 5, lines 57 – 64).

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Regarding claims 17, 35, Leung et al. discloses the limitation of the system of claimed wherein the request is an Internet group management protocol (IGMP) join request (column 2, lines 54 – 61).

Regarding claims 18, 36, Leung et al. discloses the limitation of the system of claimed wherein the join request manager denies the request by dropping one or more packets containing the request (column 7, lines 3 – 8).

5. Claims 8 – 11, 13 –16, 26 – 29, 31 – 34, are rejected under 35 U.S.C. 103(a) as being unpatentable over Leung et al. (US 6765892 B1) and Kindell et al. (US 5884028) and Sipple et al. (US 6405327 B1) as applied to claims 1 – 7, 9, 17 – 18, 20 – 25, 35 – 36 above, and further in view of Eyuboglu et al. (US 6781999 B2).

Regarding claims 8, 26, both Leung et al., Kindell et al. and Sipple et al. do not disclose expressly the system of claimed wherein the system metric is an aggregate multicast bandwidth output of the access router. Eyuboglu et al. disclose the limitation of the system of claimed wherein the system metric is an aggregate multicast bandwidth output of the access router (Abstract, lines 3 – 7; Fig. 2, element 22, column 5, lines 46 – 53). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Leung et al., Kindell et al. and Sipple et al. to include a system of claimed wherein the system metric is an aggregate multicast bandwidth output of the access router such as that taught by Eyuboglu et al. in order to provide an efficient way of delivering the same content to multiple users by transmitting only one copy (as suggested by Eyuboglu et al., see column 1, lines 37 – 39).

Regarding claims 9, 27, Leung et al., Kindell et al. and Sipple et al. do not disclose expressly the system of claimed wherein the threshold is equal to a maximum aggregate multicast bandwidth output of the access router minus a bandwidth output required to deliver the multicast traffic flow to the user device. Eyuboglu et al. discloses the limitation of the system of claimed wherein the threshold is equal to a maximum aggregate multicast bandwidth output of the access router minus a bandwidth output required to deliver the multicast traffic flow to the user device (column 12, lines 62 – 67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Leung et al., Kindell et al. and Sipple et al. to include a the system of claimed wherein the threshold is equal to a maximum aggregate multicast bandwidth output of the access router minus a bandwidth output required to deliver the multicast traffic flow to the user device such as that taught by Eyuboglu et al. in order to provide an efficient way of delivering the same content to multiple users by transmitting only one copy (as suggested by Eyuboglu et al., see column 1, lines 37 – 39).

Regarding claims 10, 13, 14, 28, 31, 32, Leung et al., Kindell et al. and Sipple et al. do not disclose expressly the system of claimed wherein the maximum aggregate multicast bandwidth output of the access router is equal to a maximum aggregate bandwidth output minus an aggregate bandwidth output reserved for unicast traffic. Eyuboglu et al. discloses the limitation of the system of claimed wherein the maximum aggregate multicast bandwidth output of the access router is equal to a maximum aggregate bandwidth output minus an aggregate bandwidth output reserved for unicast traffic, (column 9, lines 66 – 67; column 10, lines 1 – 10). It would have been obvious to

one of ordinary skill in the art at the time the invention was made to modify Leung et al., Kindell et al. and Sipple et al. to include the system of claimed wherein the maximum aggregate multicast bandwidth output of the access router is equal to a maximum aggregate bandwidth output minus an aggregate bandwidth output reserved for unicast traffic such as that taught by Eyuboglu et al. in order to provide an efficient way of delivering the same content to multiple users by transmitting only one copy (as suggested by Eyuboglu et al., see column 1, lines 37 – 39).

Regarding claims 11, 15, 16, 29, 33, 34, Leung et al., Kindell et al. and Sipple et al. do not disclose expressly the system of claimed wherein the join request manager determines the bandwidth output required to deliver the multicast traffic flow to the user device by accessing a channel profile corresponding to the multicast traffic flow contain ed in an authentication, authorization, and accounting (AAA) server. Eyuboglu et al. discloses the limitation of expressly the system of claimed wherein the join request manager determines the bandwidth output required to deliver the multicast traffic flow to the user device by accessing a channel profile corresponding to the multicast traffic flow contain ed in an authentication, authorization, and accounting (AAA) server (column 12, lines 54 – 57). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Leung et al., Kindell et al. and Sipple et al. to include the system of claimed wherein the join request manager determines the bandwidth output required to deliver the multicast traffic flow to the user device by accessing a channel profile corresponding to the multicast traffic flow contain ed in an authentication, authorization, and accounting (AAA) server such as that taught by

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Eyuboglu et al. in order to provide an efficient way of delivering the same content to multiple users by transmitting only one copy (as suggested by Eyuboglu et al., see column 1, lines 37 – 39).

## Allowable Subject Matter

6. Claim 37 is allowed.

### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew C. Lee whose telephone number is (571) 272-3131. The examiner can normally be reached on Monday through Friday from 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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ACL

Oct 29, 2005

Ajit Patel
Primary Examiner

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